
Hazard Identification Toolbox

Job Hazard Analysis (JHA)

Job Hazard Analysis / Job Safety Analysis

- Definition of JHA/JSA

- ◆ **Procedure used to review job methods & uncover hazards that:**
 - May have been overlooked
 - May have developed over time
 - Resulted from changes in work procedures
- ◆ **Used where activities are performed in a definite sequence to complete a work component**

Job Hazard Analysis

- ◆ **Level 1**

- Uncover job hazards and improve work methods

- ◆ **Level 2**

- Adds ergonomic work methods review

- ◆ **Level 3**

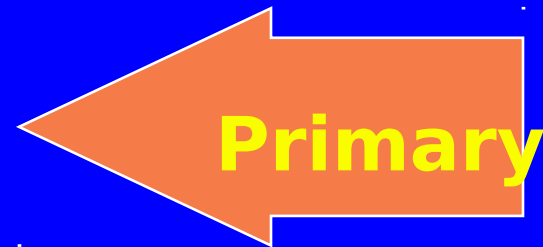
- Tool for compliance with Americans with Disabilities Act (ADA)

ASSE JSA³

Job Hazard Analysis - *Who should do the JHA?*

- ◆ **Could be a team activity....**

- Supervisor / management
- Employee



- Engineer
- Facility maintenance Person
- Safety professional
- Health personnel



Job Hazard Analysis - ***Four Basic Steps***

- ◆ **Select the job**
- ◆ **Break the job down**
- ◆ **Identify hazards and potential accidents**
- ◆ **Develop solutions**

JHA - Step 1. Select the Job

- ◆ **Prioritize effort based on:**

- **Frequency of accidents**
- **Production of disabling injuries**
- **Severity potential**
- **New jobs**
- **Ergonomic Risk Factors:**

- ◆ **Repetitive motion**

- ◆ **Force required**

- ◆ **Unnatural posture**

- ◆ **Tool/equipment vibration**

JHA - Step 2. Break the Job Down

- ◆ **Select the right person to observe**
- ◆ **Brief operator on the purpose**
- ◆ **Observe work process**
- ◆ **Record each step in the work process**
- ◆ **Note tools and equipment required**
- ◆ **Check the steps with the operator**

JOB HAZARD ANALYSIS WORKSHEET

JOB DESCRIPTION				JOB LOCATION	
KEY JOB STEPS	TOOLS, EQUIPMENT, OR MATERIALS	POTENTIAL HEALTH/INJ HAZARD TO WORKER	POTENTIAL HAZARD TO SYSTEM	RECOMMENDATION FOR WORKER PROTECTION	SYSTEM COUNTERMEASURES

JHA - Step 3. Identify Hazards

- ♦ **Note specific hazards and exposures for each step of the operation:**
 - **Danger of striking against, struck by, contact with...?**
 - **Are there potential chemical exposures?**
 - **Can employee slip or fall?**
 - **Can employee strain himself by pushing, pulling, or lifting?**
 - **In there a potential for repetitive motion/cumulative trauma injury?**
 - **Ergonomic considerations: posture, lifting, carrying loads, push/pull, grip,...**

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JHA - Step 4. Develop Solutions

- ♦ **Find a new way to do the job**
 - **Design... lift device, conveyor,**
 - **Procedures**
- ♦ **Change the physical conditions**
- ♦ **Eliminate the hazard**
- ♦ **Reduce the job task frequency**
 - **Breaks**
 - **Job rotation**

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TASK ANALYSIS WORKSHEET

TASK:	DEPT:	DATE:	ANALYST:	
STEP / ACTIVITY	HAZARD	CONTROL MEASURES		PRIORITY
<p>NOTE: ACTIVITY OR TASK HAZARD ANALYSIS IS USED TO IDENTIFY HAZARDS AND CONTROLS FOR LARGER JOBS... A CONSTRUCTION PROJECT FOR</p>				

EXAMPLE

Job Hazard Analysis - *Benefits*

- ♦ Reduce accidents, damage and injuries
- ♦ Accident investigation tool
- ♦ Improve attitude/morale about safety
- ♦ Increase output/productivity
- ♦ Reduce waste. Improve job methods
- ♦ Tool for instructing new personnel
- ♦ Pre-job instruction for infrequent tasks
- ♦ Identify PPE requirements for SOPs
- ♦ Ergonomic improvements
- ♦ Tool for ADA compliance